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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/811,376	03/16/2001	David Smith	0321.65200	6440
24978	7590 12/10/2002			
GREER, BURNS & CRAIN 300 S WACKER DR 25TH FLOOR			EXAMINER	
			LEE, BENNY T	
CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			2817	_
			DATE MAILED: 12/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	811376	Dmith et al				
Office Action Summary	Examiner	Group Art Unit				
	B. Le	2817				
—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—						
P ri d for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE The 13 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.						
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, ex Failure to reply within the set or extended period for reply will, by statute 	within the statutory minimulation (pire SIX (6) MONTHS from	um of thirty (30) days will be considered timely. the mailing date of this communication.				
Status						
☐ Responsive to communication(s) filed on						
☐ This action is FINAL .						
 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213. 						
Disposition of Claims		•				
Claim(s) 1-43		is/are pending in the application.				
Of the above claim(s)		is/are withdrawn from consideration.				
□ Claim(s)		is/are allowed.				
☐ Claim(s)————————————————————————————————————		is/are objected to.				
☐ Claim(s)————————————————————————————————————		are subject to restriction or election requirement.				
Application Papers						
See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.						
The proposed drawing correction, filed on	is approved [□ disapproved.				
The drawing(s) filed on 16 Morah 2001 is/are objected to by the Examiner.						
The specification is objected to by the Examiner.						
☐ The oath or declaration is objected to by the Examiner. Pri rity under 35 U.S.C. § 119 (a)-(d)						
 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 11 9(a)-(d). □ All □ Some* □ None of the CERTIFIED copies of the priority documents have been □ received. 						
 received in Application No. (Series Code/Serial Number) received in this national stage application from the Interr 		ule 1 7.2(a)).				
*Certified copies not received:		·				
Attachment(s)	A					
Information Disclosure Statement(s), PTO-1449, Paper No(terview Summary, PTO-413					
☐ Notice of Reference(s) Cited, PTO-892		otice of Informal Patent Application, PTO-152				
☐ Notice of Draftsperson's Patent Drawing R view, PTO-948		ther				
Office Action Summary						

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.____

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The disclosure is objected to because of the following informalities: Page 7, line 17, note that "Lablice" spacing medium the "should be rephrased for clarity. Page 11, line 25, note that "capacitor. A" should be separated for clarity. Page 17, line 2, note that for the following acronyms, such acronyms should be spelled out or defined: NMR; EPR; CESR; AFR; FMR. Page 21, note that the scripted letter "is not consistent with the non-scripted letter used to define such parameter in the specification and should be clarified. Page 22, line 1, note that the acronym 'MAFIA" should be spelled out or defined. Moreover, is such an acronym a registered trademark needing identification? Page 24, equations (6) and (7) should have parameters thereof respectively identified; in equation (7), note that the symbol "to" is vague in meaning. Page 25. line 22, note that "polarization, 17" should be separated. Page 27, line 11, note that "(1,0) (0, 1) and (1, 1) directions of incidence" is vague in meaning and needs clarification.

Appropriate correction is required.

The disclosure is objected to because of the following informalities: Note that the following reference labels need description in the specification: Fig. 5(a) (w, c, g, d); fig. 5(b) (x, c, y, z).

The disclosure is objected to because of the following informalities: Note that the following informalities: Note the following informalities: Note the following informalities: Note the following informalities

Appropriate correction is required.

The drawings are objected to because in fig. 2(a), note that dimension --a-- needs to be labeled. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the array of resonators being "Swiss roll resonators" (cl 29) and "spiral resonators" (cl 30), respectively must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the scattering defect (cl 37) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The negative permittivity medium being "superconducting" (cl 2), and the substrate being a "piezo electric/magnetostr/ctive" medium (cls 35/36), respectively are not disclosed in the specification.

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are

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canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 17-23; 24-37; 38-44 been renumbered 16-22; 23-36; 37-43.

Claims 2, 12, 13; 24, 25, 27, 28, 29 (renumbered); 43 (renumbered) are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 2, 12, 15, note that reference to "left handed material/medium" properly be -- array of elements" for a proper characterization?

In claim 43, (renumbered) note that "the adiabatic absorption" is not definite since such a feature has not been strictly defined.

The following claims have been found objectionable for reasons set forth below:

In claims , 23 (renumbered) note "for" should be rewritten as --define-- for a proper characterization.

In claim 23, (renumbered) note that --of said array-- should follow "other elements" for a proper characterization. Also, note that "forming" should be rewritten as --providing-- for a proper characterization.

In claims 32, 33, 37, (renumbered) note that "formed" should be rewritten as --defined-for a proper characterization.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15, renumbered 16-22; 23-36; 37-41; 42, 43 are rejected under 35 U.S.C. 102(b)

as being clearly anticipated by the Smith et al paper (cited by applicants').

Note that the Smith et al paper discloses applicants' claimed negative permittivity/permeability composite medium including the double loop split ring resonator cells (fig. 1) interlaced with conductive rods (e.g. figs. 2c, 2d).

Any inquiry concerning this communication should be directed to Benny Lee at telephone number (703) 308-4902.

BENNY T. LEI

PRIMARY EXAMINER ART UNIT 2817

B LEE/pj

12/04/02